

SEQUENCE LISTING

	RADERMARK	
<110>	Mead, David A. Godiska, Ronald	
<120>	CLONING VECTORS AND VECTOR COMPONENTS	
<130>	MICRO-08797	
<140> <141>	10/783,534 2004-02-20	
<160>	128	
<170>	PatentIn version 3.2	
<210><211><211><212><213>	1 46 DNA Artificial Sequence	
<220> <223>	Synthetic	
<400> cactgt	1 taac ccgggtttaa acgttgtgtc tcaaaatatc tgatgt	46
<210><211><211><212><213>	DNA	
<220> <223>	Synthetic	
<400> cactgt	2 ctccc gggagtcaaa agcctccggt cggaggcttt tgactttctg cttagaaaaa	60
ctcato	cgagc atcaaatg	78
<210><211><211><212><213>	51	
<220> <223>	Synthetic	
<400> tggac	3 gttaa cccgggccta ctaggccttg atcggcacgt aagaggttcc a	51
<210><211><212><213>		
<220> <223>	Synthetic	

<400> ttacgco	4 cccg ccctgccact ca	22
<210><211><211><212><213>	5 49 DNA Artificial Sequence	
<220> <223>	Synthetic	
<400> ctgtta	5 accc gggcgcgcct gtgcgcggaa cccctatttg tttattttc	49
<210><211><212><212><213>	6 82 DNA Artificial Sequence	
<220> <223>	Synthetic	
<400>	6 gtacc cgggcgcaga aaggccaccc gaaggtgagc cagtgtgatt acatttacca	60
	caatc agtgaggcac ct	82
<210><211><211><212><213>	DNA	
<220> <223>	Synthetic	
<400> ctgtt	7 aaccc gggatttaaa tcgttgctgg cgtttttcca taggctc	47
<210><211><211><212><213>	DNA Company	
<220> <223>		
<400> tggad	sgttaa cccgggtaga aaagatcaaa ggatct	36
	> 46 ' > DNA	
<220:		

<400> 9 cactgttaac ccgggaattg acataagcct gttcggttcg	46
<210> 10 <211> 93 <212> DNA <213> Artificial Sequence	
<220> <223> Synthetic	
<400> 10 gtgacaaccc gggcagatta aaacgaaagg cccagtcttt cgactgagcc tttcgtttta	60
tttgtttagg tggcggtact tgggtcgata tca	93
<210> 11 <211> 44 <212> DNA <213> Artificial Sequence	
<220> <223> Synthetic	
<400> 11 cagtgtcact ccatggccat gattacgcca agcttgcatg cctg	44
<210> 12 <211> 46 <212> DNA <213> Artificial Sequence	
<220> <223> Synthetic	
<400> 12 cagtgtcact cccatggctg tttcctgtgt gaaattgtta tccgct	46
<210> 13 <211> 42 <212> DNA <213> Artificial Sequence	
<220> <223> Synthetic	
<400> 13 tgtcactcca tgggacgttt atatagtggt aatctggcag ca	42
<210> 14 <211> 44 <212> DNA <213> Artificial Sequence	
<220> <223> Synthetic	

<400> ctgacto	14 gaa ttottactto cagtoottoa actggtoata cata	44
<210><211><211><212><213>		
<220> <223>	Synthetic	
<400> cattage	15 gcac cccaggcttt acactttatg	30
<210><211><211><212><213>	16 40 DNA Artificial Sequence	
<220> <223>	Synthetic	
<400> ttatta	16 cttc cagtccttca actggtcata catatggttc	40
<210><211><212><213>	DNA	
<220> <223>	Synthetic	
<400> ggaggt	17 cgac gcagttgtaa acgttaata	29
<210><211><211><212><213>	43	
<220> <223>	Synthetic	
<400> cagac	18 tgtgc aagctttgca tttacgcccc gccctgccac tca	43
<210><211><212><213>	24	
<220> <223>	Synthetic	
<400>	19	24

<210><211><211><212><213>	20 26 DNA Artificial Sequence	
<220> <223>	Synthetic	
	20 accg agctcgaatt ctagca	26
<210><211><211><212><213>		
<220> <223>	Synthetic	
<400> ctctga	21 agaat teatetgeag etegeeacgt tegeeggett teeeegtea	49
<210><211><211><212><213>	DNA	
<220> <223>	Synthetic	
<400> tgcac	22 gaatt cttgctgcag ttgtaaacgt taatattttg ttaaaattcg cgt	53
<210><211><211><212><213>	24 DNA	
<220> <223>		
<400> atctt	23 gtgca acgtgacatc agag	24
<210><211><211><212><213>	DNA	
<220 <223		
<400: cagaa	> 24 aagtca aaageeteeg ae	22
<210:	> 25	

<211> <212> <213>	21 DNA Artificial Sequence	
<220> <223>	Synthetic	
<400> cagtac	25 tgcg atgagtggca g	21
<210><211><212><212><213>		
<220> <223>	Synthetic	
<400> gattti	26 Etgtg atgctcgtca gg	22
<210><211><211><212><213>	31	
<220> <223>	Synthetic	
<400> tggga	27 Ltcgca gtggtgagta accatgcatc a	31
<210 × <211 × <212 × <213 ×	28 27 DNA Artificial Sequence	
<220: <223:	> Synthetic	
<400 ggga	> 28 aaacag cattccaggt attagaa	27
<210 <211 <212 <213	> 66 > DNA	
<220 <223		
)> 29 gcaaago ttgcatgcct gcaggtcgac tctagaggat ccccgggtac cgagctcgaa	60 66
ttct		
<210	0> 30	

<211> <212> <213>	DNA Artificial Sequence	
<220> <223>	Synthetic	
<400> catgcta	30 agaa ttegageteg gtaccegggg atcetetaga gtegacetge aggeatgeaa	60
gctttg		66
<210><211><211><212><213>	31 38 DNA Artificial Sequence	
<220> <223>	Synthetic	
<400> accaaa	31 gatc ttattacttc cagtccttca actggtca	38
<210><211><211><212><213>	32 45 DNA Artificial Sequence	
<220> <223>	Synthetic	
<400> cctgca	32 aggga gcatttaaat cgttgctggc gtttttccat aggct	45
<210><211><212><212><213>	DNA	
<220> <223>		
<400> ctgtc	33 ctcaa tacgtaaccg tatgcaatct tttcttgta	39
<210><211><212><213>		
<220> <223>	Synthetic	
<400> atctg	34 ggaaac ctgattgata ctagcacctt ctacca	36
<210>	· 35	

<211> <212> <213>	32 DNA Artificial Sequence	
<220> <223>	Synthetic	
<400> tctgag	35 ctcg gtacccggtc ctctagagtc ga	32
<211><212>		
<220> <223>	Synthetic	
<400> tcttag	36 catg ggacgtttat atagtggtaa tetggcagca	40
<210><211><212><212><213>		
<220> <223>	Synthetic	
<400> tatagt	37 Ltaac geteeetgea ggacea	26
<210><211><211><212><213>	30 DNA	
<220> <223>	Synthetic	
<400> ggcag	38 ttaac atttaaatcg ttgctggcgt	30
<210><211><211><212><213>	28 DNA	
<220> <223>		
<400> tatto	39 gggccc tgatcggcac gtaagagg	28
<210 × <211 × <212 ×	35	

<213> Ar	tificial Sequ	ence				
<220> <223> Sy	nthetic					
<400> 40 tcatgggco) cc aaaagatcaa	acgatcctct	tgaga			35
<212> DN	l 750 NA ctificial Sequ	ience				
<220> <223> Sy	ynthetic					
<400> 43	l ac gtaagaggtt	ccaactttca	ccataatgaa	ataagatcac	taccgggcgt	60
attttttg	ag ttatcgagat	tttcaggagc	taaggaagct	aaaatggaga	aaaaaatcac	120
tggatatg	cc accgttgata	tatcccaatg	gcatcgtaaa	gaacattttg	aggcatttca	180
gtcagttg	ct caatgtacct	ataaccagac	cgttcagctg	gatactacgg	cctttttaaa	240
	ag aaaaataagc					300
	ct catccggaat					360
	ac ccttgttaca					420
	ac cacgacgatt					480
	aa aacctggcct					540
	cc tgggtgagtt					600
	cc gttttcacca					660
	tt caggttcatc					720
	aa cagtactgcg					780
	cg actctagagg					840
	at ctggcagcat					900
	at gatgactggt					960
	nga tetggaaace					1020
	aat atgtgtactg					1080
	gat ctttggtcct					1140
	cc gccccctga					1200
	cag gactataaag					1260
	cga coctgoogot					1320
5			_			

gcģctttctc atagctcacg ctgtaggtat ctcagttcgg tgtaggtcgt tcgctccaag	1380
ctgggctgtg tgcacgaacc ccccgttcag cccgaccgct gcgccttatc cggtaactat	1440
cgtcttgagt ccaacccggt aagacacgac ttatcgccac tggcagcagc cactggtaac	1500
aggattagca gagcgaggta tgtaggcggt gctacagagt tcttgaagtg gtggcctaac	1560
tacggctaca ctagaagaac agtatttggt atctgcgctc tgctgaagcc agttaccttc	1620
ggaaaaagag ttggtagctc ttgatccggc aaacaaacca ccgctggtag cggtggtttt	1680
tttgtttgca agcagcagat tacgcgcaga aaaaaaggat ctcaagagga tcgtttgatc	1740
ttttgggccc	1750
<210> 42 <211> 34 <212> DNA <213> Artificial Sequence	
<220> <223> Synthetic	
<400> 42 tccgtaaagc actaaatcgg aaccctaaag ggag	34
<210> 43 <211> 38 <212> DNA <213> Artificial Sequence	
<220> <223> Synthetic	
<400> 43 tcctcgaccc caaaaaactt gattagggtg atggttca	38
<210> 44 <211> 30	
<212> DNA <213> Artificial Sequence	
<220>	
<223> Synthetic	
<400> 44 cgaaaaaccg tctatcaggg cgatggccca	30
<210> 45 <211> 51 <212> DNA <213> Artificial Sequence	
<220> <223> Synthetic	
<400> 45	

gatccct	ttg acgttggatt ccacgttctt taatagtgga ctcttgttcc a	51
<210><211><211><212><213>	46 32 DNA Artificial Sequence	
<220> <223>	Synthetic	
<400> tccgaa	46 aaac cgtctatcag ggcgatggcc ca	32
<210><211><212><213>	47 29 DNA Artificial Sequence	
<220> <223>	Synthetic	
<400> tccctt	47 tgac gttggagtcc acgttgttt	29
<210><211><212><213>		
<220> <223>	Synthetic	
<400> cttttg	48 gtcat tttctgctta ctg	23
<210><211><211><212><213>	29	
<220> <223>	Synthetic	
<400> gatcct	49 ttata aatcaaaaga ataggccga	29
<210><211><212><213>	34	
<220> <223>		
<400>	50 ttaac caggaatetg gateetgeag egee	34

<211> <212>		
<220> <223>	Synthetic	
<400> tatagtt	51 caac gcagctcgcc acgttcgcc	29
<210><211><211><212><213>	36	
<220> <223>	Synthetic	
<400> tactgt	52 cgac gcatatctgg atcctgcagc cgatac	36
<210><211><212><212><213>	18	
<220> <223>	Synthetic	
	53 ttcc ttagctcc	18
<210><211><212><212><213>	19	
<220> <223>	Synthetic	
<400> atgcaa	54 agct tgcatgcct	19
<210><211><211><212><213>	DNA	
<220> <223>	Synthetic	
<400> atgag	55 tattc aacatttcc	19
<210> <211>		
	-12-	

<212> <213>	DNA Artificial Sequence	
<220> <223>	Synthetic	
<400> atgcaa	56 gctt tgcatttacc aatgcttaat cag	33
<210><211><211><212><213>	57 39 DNA Artificial Sequence	
<220> <223>	Synthetic	
<400> atgtta	57 legea geageaaega tgttaegeag eagggeagt	39
<210><211><211><212><213>		
<220> <223>	Synthetic	
<400> atgcaa	58 agctt tgcatttagg tggcggtact tgg	33
<210><211><212><212><213>	19 DNA	
<220> <223>		
<400> atgag	59 ccata ttcaacggg	19
<210><211><212><212><213>		
<220> <223>		
<400> ctgca	eggcat gcaagctttg catttagaaa aactcatcga g	41
<210 × 211 × 212 × 212 ×		

```
<220>
<223> Synthetic
<400> 61
ctggctcacc ttcgggtggg cctttctgcg ttgctggcgt ttttccat
                                                                       48
<210> 62
<211> 54
<212> DNA
<213> Artificial Sequence
<220>
<223> Synthetic
<400> 62
tgtgattaca tttggacgcc tgtgagcttg aggttaacgc tccctgcagg acca
                                                                       54
<210> 63
<211> 54
<212> DNA
<213> Artificial Sequence
<220>
<223> Synthetic
<400> 63
caccttcacg ggtgggcctt tcttcggtag aaaagatcaa aggatcttct tgag
<210> 64
<211> 64
<212> DNA
<213> Artificial Sequence
<220>
<223> Synthetic
<400> 64
agccagtgag ttggttacag tccagttact ctcactggat gatcggcacg taagaggttc
                                                                        60
                                                                        64
caac
<210> 65
<211> 29
<212> DNA
<213> Artificial Sequence
<220>
<223> Synthetic
<400> 65
                                                                        29
gtaatgaggg cccaaatgta atcacctgg
 <210> 66
 <211>
       50
 <212> DNA
 <213> Artificial Sequence
```

<220> <223>	Synthetic	
<400> cctgaat	66 gat atcaagcttg aattcgttaa cggcacccca ggctttacac	50
<211> <212>		
<220> <223>	Synthetic	
<400> ctgattt	67 caaa tggtcagtat tgagcgatat ctagagaatt cgtcgactta cttccagtcc	60
ttcaact	zgg	69
<210><211><211><212><213>	68 74 DNA Artificial Sequence	
<220> <223>	Synthetic	
<400> tacctg	68 acct ccatagcaga aagtcaaaag cctccgaccg gaggcttttg acttgatcgg	60
cacgta	agag gttc	74
<210><211><211><212><213>	DNA	
<220> <223>	Synthetic	
<400> catttg	69 ggcc ctcattacca atgcttaatc ag	32
<210><211><211><212><213>	DNA	
<220> <223>	Synthetic	
<400> gtaatg	70 gaggg cccaaatgta atcacctgg	29
<210><211><211>		

<213>	Artificial Sequence				
<220>					
	Synthetic				
-100-	71				
<400>	71 atca ttcaggacga geetcagaet ceagtgageg taaetggaet gtaatcaaet	60			
occgaco	acca secaggacga geocoagaes coagegageg caaceggace geaaceaace	•			
cactgg		66			
<210>	72				
<211>					
<212>					
<213>	Artificial Sequence				
<220>					
<223>	Synthetic				
400	70				
<400>	72 atca ttcaggacga gcc	23			
cccgace	acca cccaggacga gcc	23			
	73				
<211>					
<212>	Artificial Sequence				
72137	ALCILICIAL DOGUCIOO				
<220>					
<223>	Synthetic				
<400>	73				
tacctgacct ccatagcaga aa					
_					
-210-	7.4				
<210> <211>	74 22				
<212>					
<213>	Artificial Sequence				
220					
<220> <223>	Synthetic				
(000)					
<400>	74				
ctgatt	taaa tggtcagtat tg	22			
<210>	75				
<211>	52				
<212>					
<213>	Artificial Sequence				
<220>					
<223>	Synthetic				
400					
	<400> 75 tetttegaet gageettteg ttttatttga ttagaaaaae teategagea te 52				
	gade gageettteg tettatttga ttagaaaaat teategagea te	26			
<210>	76				
<211> <212>	57 DNA				

```
<213> Artificial Sequence
<220>
<223> Synthetic
ctgagccttt cgttttaatc tggaaaaacc accctggcgc tgcaggttcc agattcc
                                                                      57
<210> 77
<211> 39
<212> DNA
<213> Artificial Sequence
<220>
<223> Synthetic
<400> 77
                                                                      39
aaccataaaa ttggcacccc aggctttaca ctttatgct
<210> 78
<211> 44
<212> DNA
<213> Artificial Sequence
<220>
<223> Synthetic
<400> 78
gacccacggg gctggttact tccagtcctt caactggtca taca
                                                                      44
<210> 79
<211> 39
<212> DNA
<213> Artificial Sequence
<220>
<223> Synthetic
<400> 79
aacccacggg gatgggcagc tcgccacgtt cgccggctt
                                                                      39
<210> 80
<211> 38
<212> DNA
<213> Artificial Sequence
<220>
<223> Synthetic
gaccataaaa ctgggcagtt gtaaacgtta atattttg
                                                                      38
<210>
       81
<211>
       32
<212> DNA
<213> Artificial Sequence
```

<220> <223>	Synthetic	
<400> agcggco	81 egca gaettgeetg accattgaee ee	32
<210><211><212><212><213>		
<220> <223>	Synthetic	
<400> tcaatg	82 gtca ggcaagtctg cggccgct	28
<210><211><211><212><213>		
<220> <223>	Synthetic	
<400> agcggc	83 egca gacttgcctg accattgatt tt	32
<210><211><211><212><213>	84 32 DNA Artificial Sequence	
<220> <223>	Synthetic	
<400> agcggc	84 egga gaettgeetg accattgaeg ac	32
<210><211><211><212><213>	85 1833 DNA Artificial Sequence	
<220> <223>	Synthetic	
<400> gacgaa	85 attot otagatatog otcaatactg accatttaaa toatacotga ootcoatago	60
agaaag	gtcaa aagcctccga ccggaggctt ttgacttgat cggcacgtaa gaggttccaa	120
ctttca	accat aatgaaataa gatcactacc gggcgtattt tttgagttat cgagattttc	180
aggago	ctaag gaagctaaaa tgagtattca acatttccgt gtcgccctta ttcccttttt	240
tgcggc	cattt tgccttcctg tttttgctca cccagaaacg ctggtgaaag taaaagatgc	300

```
tgaagatcag ttgggtgcac gagtgggtta catcgaactg gatctcaaca gcggtaagat
                                                                     360
ccttgagagt ttacgccccg aagaacgttt tccaatgatg agcactttta aagttctgct
                                                                     420
                                                                     480
atgtggcgcg gtattatccc gtattgacgc cgggcaagag caactcggtc gccgcataca
                                                                      540
ctattctcag aatgacttgg ttgagtactc accagtcaca gaaaagcatc tcacggatgg
                                                                     600
catgacagta agagaattat gcagtgctgc cataaccatg agtgataaca ctgcggccaa
cttacttctg gcaacgatcg gaggaccgaa ggagctaacc gcttttttgc acaacatggg
                                                                      660
                                                                      720
ggatcatgta actogcottg atogttggga accggagotg aatgaagoca taccaaacga
                                                                      780
cgagcgtgac accacgatgc ctgtagcaat ggcaacaacg ttgcgcaaac tattaactgg
                                                                      840
cgaactactt actctagctt cccggcaaca attaatagac tggatggagg cggataaagt
tgcaggatca cttctgcgct cggccctccc ggctggctgg tttattgctg ataaatctgg
                                                                      900
                                                                     960
agcoggtgag cgtgggtctc gcggtatcat tgcagcactg gggccagatg gtaagccctc
                                                                     1020
ccgcatcgta gttatctaca cgacggggag tcaggcaact atggatgaac gaaatagaca
                                                                     1080
gategetgag ataggtgeet caetgattaa geattggtaa tgagggeeca aatgtaatea
cctggctcac cttcgggtgg gcctttctgc gttgctggcg tttttccata ggctccgccc
                                                                     1140
ccctgacgag catcacaaaa atcgatgctc aagtcagagg tggcgaaacc cgacaggact
                                                                     1200
                                                                     1260
ataaagatac caggcgtttc cccctggaag ctccctcgtg cgctctcctg ttccgaccct
geogettace ggatacetgt eegeetttet eeetteggga agegtggege ttteteatag
                                                                     1320
ctcacgctgt aggtatctca gttcggtgta ggtcgttcgc tccaagctgg gctgtgtgca
                                                                     1380
cgaaccccc gttcagcccg accgctgcgc cttatccggt aactatcgtc ttgagtccaa
                                                                     1440
                                                                     1500
cccggtaaga cacgacttat cgccactggc agcagccact ggtaacagga ttagcagagc
                                                                     1560
gaggtatgta ggcggtgcta cagagttctt gaagtggtgg cctaactacg gctacactag
aagaacagta tttggtatct gcgctctgct gaagccagtt acctcggaaa aagagttggt
                                                                     1620
agetettgat ceggeaaaca aaccaceget ggtageggtg gtttttttgt ttgcaageag
                                                                     1680
cagattacgc gcagaaaaaa aggatctcaa gaagatcctt tgattttcta ccgaagaaag
                                                                     1740
                                                                     1800
gcccacccgt gaaggtgagc cagtgagttg attgcagtcc agttacgctg gagtctgagg
                                                                     1833
ctcgtcctga atgatatcaa gcttgaattc gtt
```

<210> 86

<211> 1058

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 86

gaċgcatatc	tggatcctgc	agccgatacg	gtcgtcgtcc	gtttaaacgt	tgtgtctcaa	60
aatctctgat	gtcacgttgc	acaagataaa	aatatatcat	catgaacaat	aaaaccgtct	120
gcttacataa	acagtaatac	aaggggtgtt	atgagccata	ttcaacggga	aacgtcttgc	180
tcgaggccgc	gattaaattc	caacatggat	gctgatttat	atgggtataa	atgggctcgc	240
gataatgtcg	ggcaatcagg	tgcgacaatc	tatcgattgt	atgggaagcc	cgatgcgcca	300
gagttgtttc	tgaaacatgg	caaaggtagc	gttgccaatg	atgttacaga	tgagatggtc	360
aggctaaact	ggctgacgga	atttatgcct	cttccgacca	tcaagcattt	tatccgtact	420
cctgatgatg	catggttact	caccactgcg	atcccaggga	aaacagcatt	ccaggtatta	480
gaagaatatc	ctgattcagg	tgaaaatatt	gttgatgcgc	tggcagtgtt	cctgcgccgg	540
ttgcattcga	ttcctgtttg	taattgtcct	tttaacggcg	atcgcgtatt	tcgtctcgct	600
caggcgcaat	cacgaatgaa	taacggtttg	gttggtgcga	gtgattttga	tgacgagcgt	660
aatggctggc	ctgttgaaca	agtctggaaa	gaaatgcata	agcttttgcc	attctcaccg	720
gattcagtcg	tcactcatgg	tgatttctca	cttgataacc	ttatttttga	cgaggggaaa	780
ttaataggtt	gtattgatgt	tggacgagtc	ggaatcgcag	accgatacca	ggatcttgcc	840
atcctatgga	actgcctcgg	tgagttttct	ccttcattac	agaaacggct	ttttcaaaaa	900
tatggtattg	ataatcctga	tatgaataaa	ttgcagtttc	acttgatgct	cgatgagttt	960
ttctaatcaa	ataaaacgaa	aggctcagtc	gaaagactga	gcctttcgtt	ttaatctgga	1020
aaaaccaccc	tggcgctgca	ggttccagat	tcctggtt			1058

<210> 87 <211> 38

<211> JO <212> DNA <213> Artificial Sequence

<220>

<223> Synthetic

<400> 87

catttgggcc ctcatcagag gttttcaccg tcatcacc

38

<210> 88

<211> 26

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 88

gtgaccaaac aggaaaaaac cgccct

26

<210> 89

<211><212><213>	32 DNA Artificial Sequence	
<220> <223>	Synthetic	
<400> cctctg	89 atga gggcccaaat gtaatcacct gg	32
<210><211><211><212><213>	22	
<220> <223>	Synthetic	
	90 atgc ttaatcagtg ag	22
<210><211><211><212><213>	26	
<220> <223>	Synthetic	
<400> atgaco	91 caaac aggaaaaaac cgccct	26
<210><211><211><212><213>	24	
<220> <223>	Synthetic	
<400> gacgaa	92 attct ctagatatcg ctca	24
<210><211><211><212><213>	25 DNA	
<220> <223>	Synthetic	
<400> aacgaa	93 attca agcttgatat cattc	25
<210><211><212>	44	

```
<213> Artificial Sequence
<220>
<223> Synthetic
<400> 94
aagcagtgat caacggggaa caaatcagaa gtatcagcga cctc
                                                                       44
<210> 95
<211> 45
<212> DNA
<213> Artificial Sequence
<220>
<223> Synthetic
<400> 95
atcacctgca gttattaaga aagtatgatg gtgatgtcgc agcct
                                                                       45
<210> 96
<211> 62
<212> DNA
<213> Artificial Sequence
<220>
<223> Synthetic
<400> 96
egeteeetge agageetgat caetgetttt tteatttagg tggeggtaet tgggtegata
                                                                       60
tc
                                                                       62
<210> 97
<211> 39
<212> DNA
<213> Artificial Sequence
<220>
<223> Synthetic
<400> 97
caggetetge agggagegtt aacatttaaa tegttgetg
                                                                       39
<210> 98
<211> 40
<212> DNA
<213> Artificial Sequence
<220>
<223> Synthetic
gcacaggtga tcaacacgtt tgacggggtg cggattatct
                                                                       40
<210> 99
<211> 51
<212> DNA
```

```
<213> Artificial Sequence
<220>
<223> Synthetic
<400> 99
atcacctgca gttattatct gatttttgta aaggtctgat aatggtccgt t
                                                                        51
<210> 100
<211> 62
<212> DNA
<213> Artificial Sequence
<220>
<223> Synthetic
<400> 100
cgctccctgc aggtgatcac ctgtgccatt tacgccccgc cctgccactc atcgcagtac
                                                                        60
tg
                                                                        62
<210> 101
<211> 33
<212> DNA
<213> Artificial Sequence
<220>
<223> Synthetic
<400> 101
gagctgataa caatttcaga caggaaacag cca
                                                                        33
<210> 102
<211> 52
<212> DNA
<213> Artificial Sequence
<220>
<223> Synthetic
<400> 102
ccgttactgt ttacccctgt gacaaaagcc gcacaggtta tcaacacgtt tg
                                                                        52
<210> 103
<211>
       43
<212> DNA
<213> Artificial Sequence
<220>
<223> Synthetic
<400> 103
tatctagaga attcgtcgac ttatctgatt tttgtaaagg tct
                                                                        43
<210> 104
<211> 52
<212> DNA
```

```
<213> Artificial Sequence
<220>
<223> Synthetic
taagagtgcc agtgcaatag tgctttgttt catggctgtt tcctgtgtga aa
                                                                       52
<210> 105
<211> 46
<212> DNA
<213> Artificial Sequence
<220>
<223> Synthetic
<400> 105
cctttacaaa aatcagataa gtcgacgaat tctctagata tcgctc
                                                                       46
<210> 106
<211> 32
<212> DNA
<213> Artificial Sequence
<220>
<223> Synthetic
<400> 106
cattaggcac cccaggcttt acactttatg ct
                                                                       32
<210> 107
<211> 37
<212> DNA
<213> Artificial Sequence
<220>
<223> Synthetic
<400> 107
ttattagcgc cattcgccat tcaggctgcg caactgt
                                                                       37
<210> 108
<211> 35
<212> DNA
<213> Artificial Sequence
<220>
<223> Synthetic
<400> 108
tcggaggctt ttgactttct gctatggagg tcagg
                                                                       35
<210> 109
<211> 36
<212> DNA
<213> Artificial Sequence
```

<220> <223>	Synthetic		
<400> ataatt	109 ccac acattatacg agccggaagc ataaag	36	
<212>	110 79 DNA Artificial Sequence		
<220> <223>	Synthetic		
<400> tccaca	110 catt atacgagccg gaagcataaa gtgtaaagcc tggggtgccg ttagcgaatt	60	
caagct	tgat atcattcag	79	
<210><211><211><212><213>	111 72 DNA Artificial Sequence		
<220> <223>	Synthetic		
<400> attatg	111 gact cgagggacgt tgccttacag gaaacagcca tggttaacgg acgtttatat	60	
agtggt	aatc tg	72	
<212>	112 28 DNA Artificial Sequence		
<220> <223>	Synthetic		
<400> aagaaa	112 ccaa ttgtccatat tgcatcag	28	
<212>	113 24 DNA Artificial Sequence		
<220> <223>	Synthetic		
<400> 113 aaccatcgtt tcactccatc caaa 2			
<210><211><211><212>	114 87 DNA		

```
<213> Artificial Sequence
 <220>
 <223> Synthetic
 <400> 114
 atcttgtgca acgtgacatc agagattttg agacacaacg tttaaacgga cgacggccgt
                                                                        60
 atcggctgca ggatccagat atgcgtc
                                                                        87
 <210> 115
 <211> 54
 <212> DNA
 <213> Artificial Sequence
 <220>
 <223> Synthetic
 <400> 115
 ttcgttttaa tctggaaaaa ccaccctggc gctgcaggtt ccagattcct ggtt
                                                                        54
 <210> 116
<211> 59
<212> DNA
<213> Artificial Sequence
 <220>
 <223> Synthetic
 <400> 116
 cagtccagtt acgctggagt ctgaggctcg tcctgaatga tatcaagctt gaattcgtt
                                                                       59
 <210> 117
 <211> 66
<212> DNA
 <213> Artificial Sequence
 <220>
 <223> Synthetic
 <400> 117
 ctttctgcta tggaggtcag gtatgattta aatggtcagt attgagcgat atctagagaa
                                                                        60
 ttcgtc
                                                                        66
 <210> 118
 <211> 32
 <212> DNA
 <213> Artificial Sequence
 <220>
 <223> Synthetic
 <400> 118
 ccggaggctt ttgacttgat cggcacgtaa ga
                                                                        32
 <210> 119
```

<211><212><213>	40 DNA Artificial Sequence	
<220> <223>	Synthetic	
<400> ggactco	119 gagg gacgttgcct tacaggaaac agccatggga	40
<210><211><212><212><213>	120 47 DNA Artificial Sequence	
<220>	Synthetic	
<400> gcaccto	120 gacc teetgtgtet tegaegaatt etetagatat egeteaa	47
<211><212>		
<220> <223>	Synthetic	
<400> gcaatgo	121 gtct gtcgccgtct tcaacgaatt caagcttgat atcattcagg a	51
<210><211><211><212><213>	122 50 DNA Artificial Sequence	
<220> <223>	Synthetic	
<400> ggaccto	122 gcaa gtcgggagac cgacgcatat ctggatcctg cagccgatac	50
<212>	123 49 DNA Artificial Sequence	
<220> <223>	Synthetic	
<400> ggaatco	123 Etgg teetegagae caaccaggaa tetggaaeet geagegeea	49
<210><211><211>	124 43 DNA	

<213>	Artificial Sequence	
<220> <223>	Synthetic	
<400> ggtactt	124 cate aggaegagae eeattaggea eeceaggett tae	43
<210><211><211><212><213>	125 45 DNA Artificial Sequence	
<220> <223>	Synthetic	
<400> ggtcta	125 ttag aggacgagac cttagcgcca ttcgccattc aggct	45
	126 44 DNA Artificial Sequence	
<220> <223>	Synthetic	
<400> ggaact	126 toga ogacogagao caattgacat aagootgtto ggtt	44
<210><211><212><213>	127 45 DNA Artificial Sequence	
<220> <223>	Synthetic	
<400> gtgtac	127 aatg cgaccgagac cttaggtggc ggtacttggg tcgat	45
<210><211><211><212><213>	128 32 DNA Artificial Sequence	
<220> <223>	Synthetic	
<400>	128 cgca gacttgcctg accattgaag ga	32